

IN THE CLAIMS

Please amend the claims as set forth below:

1. (Currently Amended) A method, comprising:
determining a duration of a QRS complex and a timing relationship between the right and left ventricular depolarizations during an intrinsic heart beat;
determining a duration of a PR interval during an intrinsic heart beat;
~~selecting among~~ suggesting one or more ventricular pacing sites ~~in which to provide to which to deliver~~ pacing pulses ~~from one or more algorithms~~ using at least the duration of a QRS complex and the timing relationship between the right and left ventricular depolarizations; and
suggesting an AV delay interval for delivering the pacing pulses to one or more ventricular sites based upon the determined PR interval duration
~~displaying at least one suggested ventricular pacing site in which to provide pacing pulses.~~
2. (Previously Presented) The method of claim 1, wherein determining a duration of a QRS complex includes providing the duration interval of the QRS complex from a pulse generator.
3. (Currently Amended) The method of claim 1, further including decreasing the suggested AV delay interval if a cardiac cycle occurs in which an intrinsic ventricular depolarization causes no ventricular pace to be delivered. ~~sensing a first cardiac signal in a right ventricular region and a second cardiac signal in a left ventricular region, and wherein displaying at least one suggested ventricular pacing site includes suggesting one or more ventricular chambers in which to provide pacing pulses based on the duration interval of the QRS complex.~~
4. (Previously Presented) The method of claim 3, wherein suggesting one or more ventricular chambers includes suggesting pacing in a left ventricle when the duration interval of the QRS complex is greater than or equal to 120 milliseconds and R_L occurs later than R_R , where R_L is a time at which a depolarization in the left ventricle occurred and R_R is a time at which the depolarization in a right ventricle occurred.

5. (Previously Presented) The method of claim 3, wherein suggesting one or more ventricular chambers includes suggesting pacing in both a left ventricle and a right ventricle when the duration interval of the QRS complex is greater than or equal to 120 milliseconds and R_L occurs later than R_R , where R_L is a time at which a depolarization in the left ventricle occurred and R_R is a time at which the depolarization in a right ventricle occurred.

6. (Previously Presented) The method of claim 3, wherein suggesting one or more ventricular chambers includes suggesting pacing in a right ventricle when the duration interval of the QRS complex is greater than or equal to 120 milliseconds and R_R occurs later than R_L or at the same time as R_L , where R_L is a time at which a depolarization in the left ventricle occurred and R_R is a time at which the depolarization in a right ventricle occurred.

7-12. (Canceled)

13. (Previously Presented) The method of claim 1, further including receiving a request to display one or more suggested pacing sites in which to provide pacing pulses; and
displaying an estimated time to complete executing the one or more algorithms to calculate the suggested pacing sites in which to provide pacing pulses.

14. (Previously Presented) The method of claim 1, including programming an implantable pulse generator with the suggested pacing sites in which to provide pacing pulses.

15. (Currently Amended) A medical device programmer, comprising:

- a data input for receiving a duration interval of a QRS complex from a pulse generator and a timing relationship between the right and left ventricular depolarizations;
- a data input for receiving a duration interval of an intrinsic PR interval;
- control circuitry for using the duration interval of a QRS complex, intrinsic PR interval, and the timing relationship between right and left ventricular depolarizations to select among ventricular pacing sites in which to provide pacing pulses and select an AV delay interval for delivering one or more ventricular pacing pulses;
- a display screen to display at least one suggested ventricular pacing site in which to provide pacing pulses and a suggested AV delay interval; and
- an input to initiate programming the suggested ventricular pacing site in which to provide pacing pulses and the suggested AV delay interval into the pulse generator.

16. (Previously Presented) The medical device programmer of claim 15, wherein the pacing pulses provide synchronized ventricular contractions.

17. (Currently Amended) The medical device programmer of claim 16, wherein the control circuitry includes a receiver/transmitter and a ventricular chamber selector coupled to the data input and the receiver/transmitter, the receiver/transmitter for receiving intrinsic intracardiac electrograms of a left and right ventricle and the ventricular chamber selector for determining the relationship between R_L and R_R , where R_L is a time at which a depolarization in the left ventricle occurred and R_R is a time at which the depolarization in a right ventricle occurred, and suggesting one or more ventricular chambers in which to provide pacing pulses based on the duration interval of the QRS complex and the relationship between R_L and R_R .

18. (Previously Presented) The medical device programmer of claim 17, wherein the ventricular chamber selector suggests pacing in the left ventricle when the duration interval of the QRS complex is greater than or equal to 120 milliseconds and R_L occurs later than R_R .

19. (Previously Presented) The medical device programmer of claim 17, wherein the ventricular chamber selector suggests pacing in both the left ventricle and the right ventricle when the duration interval of the QRS complex is greater than or equal to 120 milliseconds and R_L occurs later than R_R .

20. (Previously Presented) The medical device programmer of claim 17, wherein the ventricular chamber selector suggests pacing in the right ventricle when the duration interval of the QRS complex is greater than or equal to 120 milliseconds and R_R occurs later than R_L or at the same time as R_L .

21-46. (Canceled)